

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :	
Misidentified ☐	Past Due ☐																																																														

Work Order ID 166353***166353***

Page 2

Monday, September 18, 2017 8:52:51 AM

Item ID: D412-705-021 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Oil Pressure Transmitter Access
Start Date: 9/18/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/22/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging Memo Identify and pack for shipping as per PPP D412-705-021 Location :FG023	0.00 0.00				DAS 27 9-89			
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.10							

SEP 20 2017

17/9/21

SEP 20 2017

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Misidentified ☐	Past Due ☐																																																																

Picklist Print

Monday, September 18, 2017 8:52:56 AM

Page 1

Work Order ID: 166353

166353

Parent Item: D412-705-021

D412-705-021

Parent Item Name: Oil Pressure Transmitter Access

Start Date: 9/18/2017

Required Date: 9/22/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:a new issue 08-08-05 DD verified by: EC
ECN 12-670 12.11.07 DD Verified by:JLM

IPP Rev:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN3C3A		Purchased	No			110	Each	76.0000	6	6			
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AN3C3A

Bolt

**

DAS
27
9-89

Location

Loc Qty

Loc Code

GA	7	
m136182	7	
ST350	69	
m137820	69	

SEP 19 2017

D3307-041		Manufactured	No			110	Each	3.0000	1	1			
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D3307-041

Access Panel Assembly LH

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST030	3	
147977	1	
156289	2	

SEP 19 2017

MS20427M3-3		Purchased	No			110	Each	1,324.000	12	12			
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MS20427M3-3

Rivet

**

DAS
27
9-89

Location

Loc Qty

Loc Code

GA	379	
m134738	379	
ST311	945	
m136741	945	

SEP 19 2017

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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

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Page 2

Work Order ID: 166353

166353

Parent Item: D412-705-021

D412-705-021

Parent Item Name: Oil Pressure Transmitter Access

Start Date: 9/18/2017

Required Date: 9/22/2017

Start Qty: 1.00

Required Qty: 1.00

MS21060-L3K

Purchased

No

110

Each

61.0000

6

6

MS21060-L3K

Nut Plate

**

SEP 19 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

27

m135297

27

ST300

34

m137963

34

MS9321-09

Purchased

No

110

Each

226.0000

6

6

MS9321-09

Washer

**

SEP 19 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST267

226

m136740

226

DQA: _____ Date: _____



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5.0 PARTS LIST

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Qty -021	Qty -023	Part Number	Description
X							D412-705-011	TWIN PAK E-Z ACCESS KIT
1	X						D412-705-013	INTAKE PLENUM ACCESS PANEL KIT
1		X					D412-705-015	DRIVESHAFT TUNNEL MODIFICATION KIT
1			X				D412-705-017	N1 GEARBOX ACCESS PANEL KIT
1				X			D412-705-019	C-BOX OIL COOLER LINE SUPPORT ACCESS KIT
1					X		D412-705-021	OIL PRESSURE TRANSMITTER ACCESS KIT
1						X	D412-705-023	OIL COOLER SUPPORT REMOVABLE LOWER PANEL KIT
	1						D3245-041	ACCESS PANEL ASSEMBLY, LH
	1						D3245-042	ACCESS PANEL ASSEMBLY, RH
	2						D3245-043	DOOR ASSEMBLY
	2						D3245-9	GASKET
	2						D3245-11	GASKET
	2						D3245-13	GASKET
			1				D3255-041	ACCESS PANEL ASSEMBLY, LH
			1				D3255-042	ACCESS PANEL ASSEMBLY, RH
		1					D3256-1	ACCESS PANEL
		1					D3256-3	GASKET
				1			D3259-041	ACCESS PANEL ASSEMBLY, LH
				1			D3259-042	ACCESS PANEL ASSEMBLY, RH
					1		D3307-041	ACCESS PANEL ASSEMBLY
						30	AN3-3A	BOLT
		22	30		6		AN3C3A	BOLT
		3					AN3C4A	BOLT
						30	AN960JD10	WASHER
	16	44	36		12		MS20427M3-3	* RIVET
						4	MS21051-L3K	NUT PLATE
	8	22	18		6		MS21060-L3K	NUT PLATE
						18	MS21069-L3K	NUT PLATE
		25	30		6		MS9321-09	WASHER

* Acceptable to substitute for MS20615M3-3 rivets. At installation, it is acceptable to use longer rivets if required.

Page 1

Stop ***NR2***

[illegible]



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH04-25

Issue No.: 1

Approval Date: April 21, 2004

Issue Date: April 21, 2004

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

BELL 212, 412, 412 CF, 412 EP

Canadian Type Certificate or Equivalent:

H-86

Description of Type Design Change:

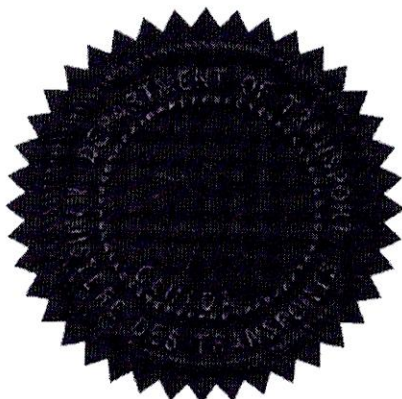
TWIN PAK EASY ACCESS KITS

**Installation/Operating Data,
Required Equipment and Limitations:**

Installation of Twin Pak E-Z Access Kit to be in accordance with Transport Canada approved DART AEROSPACE LTD. Installation Instructions, IIN-D412-705, Revision A, dated February 20, 2004 or later Transport Canada approved revision.

Instructions for Continuing Airworthiness described in DART AEROSPACE LTD. document number ICA-D412-705, Initial Issue dated March 09, 2004 or later revision are required with this installation.

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.



Greg Oucharek
For Minister of Transport